

Title (en)

DISPLAY APPARATUS AND METHOD AND INFORMATION PROCESSING APPARATUS AND METHOD FOR PROVIDING PICTURE IN PICTURE FUNCTION

Title (de)

DISPLAY-VORRICHTUNG UND VERFAHREN UND INFORMATIONSVERARBEITUNGSVORRICHTUNG UND VERFAHREN ZUM BEREITSTELLEN EINER BILD-IM-BILD-FUNKTION

Title (fr)

APPAREIL ET PROCEDE D'AFFICHAGE ET APPAREIL ET PROCEDE DE TRAITEMENT D'INFORMATIONS PROPOSANT UNE FONCTION D'INCRUSTATION D'IMAGE

Publication

**EP 1961218 A4 20090121 (EN)**

Application

**EP 06812461 A 20061107**

Priority

- KR 2006004625 W 20061107
- KR 20050121899 A 20051212

Abstract (en)

[origin: WO2007069824A1] A display apparatus and method and an information processing apparatus and method, by which a picture in picture (PIP) region is automatically and freely changed between a semi-transparent state and an opaque state according to a position of a pointing device, are provided. The information processing apparatus includes a communicator receiving position information of the PIP region from the display apparatus and transmitting transparency information, which changes a screen of the PIP region into the semi-transparent state or the opaque state according to whether the pointing device is positioned within the PIP region, to the display apparatus; and a PIP monitoring unit setting a state of the transparency information according to whether the pointing device is positioned within the PIP region.

IPC 8 full level

**G06F 3/0481** (2013.01); **H04N 5/45** (2011.01)

CPC (source: EP KR US)

**G06F 3/0481** (2013.01 - EP US); **H04N 5/45** (2013.01 - EP KR US); **H04N 21/4143** (2013.01 - EP US); **H04N 21/42204** (2013.01 - EP US); **H04N 21/4316** (2013.01 - EP US); **H04N 21/4318** (2013.01 - EP US); **G06F 2203/04804** (2013.01 - EP US); **G09G 2340/10** (2013.01 - EP US); **G09G 2340/125** (2013.01 - EP US); **H04N 21/4858** (2013.01 - EP US)

Citation (search report)

- [Y] EP 1404130 A1 20040331 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [Y] US 2001012022 A1 20010809 - SMITH KIM C [US]
- [A] WO 0193008 A1 20011206 - MICROSOFT CORP [US]
- [A] US 2003208751 A1 20031106 - KIM YONG-JAE [KR], et al
- See references of WO 2007069824A1

Designated contracting state (EPC)

IT NL

DOCDB simple family (publication)

**WO 2007069824 A1 20070621**; CN 101278555 A 20081001; CN 101278555 B 20120905; EP 1961218 A1 20080827; EP 1961218 A4 20090121; EP 1961218 B1 20130703; KR 100739774 B1 20070713; KR 20070062148 A 20070615; US 2008291327 A1 20081127

DOCDB simple family (application)

**KR 2006004625 W 20061107**; CN 200680036922 A 20061107; EP 06812461 A 20061107; KR 20050121899 A 20051212; US 9670506 A 20061107